PROJECT TITLE : Tobacco Analysis

WRITTEN BY : L. Joseph

PERIOD COVERED : June 2nd - 30th, 1980

TOBACCO LOT ANALYSES

1. Special trials

Denitrated LTR (1), (2)

The results of the trial of denitrated LTR with adjunction of potassium are available (lot 7202).

In regard to the denitrated trial with no adjunction of K (lot 7195) we notice: (See enclosed table)

- lower CO delivery in mg/cig
- lower DPM delivery in mg/cig
- higher free combustibility (74,1% for lot 7202 compared to 52,3% for lot 7195)
- higher K level (1% more)
- lower cylinder volume

The samples have been given to the Research Laboratory to analyse the citrate content.

Marlboro and Chesterfield blends for Algeria (3)

The results of the smoke analyses of TLA cigarettes are available.

MD tobaccos, storage influence (4)

We have not yet begun the analyses.

Blending problems with different grades of the same lot (2)

We observed lower values only in TA content, SN and DPM deliveries of the sample coming from the fourth part of the lot.

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Fermented and non-fermented Swiss tobaccos

The analyses of two samples are under way.

2. Routine tobacco lot analyses

Introduction of inputs on EDP

Eighteen lots were introduced in the analytical data list.

Lots under evaluation

Fifty lots.

Lots available but not yet analysed

Thirty four lots.

3. Assistance to other projects

Project Spotless (5)

The smoke analyses of denitrated trials have been given to Mr. F. Moser.

Project RCB

The smoke analyses results of lots No. 0118 - 0120 - 0121 - 0122 (change of solution receipe) are available. Lot 0118 gave a lower CO delivery than the normal production.

We have received one more sample with another solution receipe: lot 0126 (6). The analyses are under way.

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References:

1. Letter from LTR to Mr. H. Boeckle, dated April 8th, 1980.

2. Tobacco analysis monthly report of May 1980.

3. Invoice-note of delivery from Richmond, dated April 18th, 1980.

4. Mr. Karle's report: "Chemical, physical and organoleptic examination of MD tobaccos ..., of May 12, 1978", dated September 19th, 1978.

5. Spotless monthly report of January 1980.

6. Letter from Mr. P. Karbacher to Mr. J.P. Caccivio, dated May 29th, 1980.

June 30, 1980
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Table

Trial on denitrated LTR

		lot 7198 standard	lot 7195 denitrated	lot 7202 denitrated + K adj.
Filler analysis				
TA	(%)	0.56	0.56	0.59
RS	(%)	5.1	5.4	6.1
NO3-N	(%)	0.51	0.15	0.15
NH3-N	(%)	0.20	0.18	0.21
Tot-N	(%)	2.31	1.73	1.73
pH		7.3	7.4	6.8
Chloride	(%)	1.41	1.40	1.34
Ashes	(%)	22.0	20.2	23.2
K	(%)	4.61	3.79	4.80
Ca	(%)	4.24	4.34	5.12
Mg	(%)	0.46	0.42	0.44
CV at e.m.	(ml/10g)	33.0	34.7	29.9
Equilibrium moisture	(%)	11.9	11.9	11.5
HWS	(%)	42.3	38.7	41.9
Phosphate	(%)	0.43	0.52	0.45
Sulfate	(%)	0.73	1.00	1.24
Cigarette analysis				
Tobacco weight	(mg)	1040	1022	1124
Diameter	(mm)	8.00	8.02	8.01
RTD	(mm H2O)	112	117	134
Compressibility	(mm)	3.33 at 11.8% mc	3.01 at 11.3% mc	3.33 at 12.3% mc
OV	(%)	11.9	11.6	11.7
Smoke analysis				
CO	(mg/cig)	21.2	28.0	23.6
NO	(mg/cig)	0.58	0.21	0.19
DPM	(mg/cig)	9.0	10.4	8.6
SN	(mg/cig)	0.34	0.42	0.38
Puff number	(nbr/cig)	8.2	8.4	8.9
HCN	(µg/cig)	171	158	110
Aldehydes	(mg/cig)	1.56	1.59	1.41

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